

# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/US2004/005273**

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G02B5/28 B32B17/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G02B B32B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/23915 A (ARNOLD JOERG ; MITSUBISHI INTERNAT GMBH (DE)) 5 April 2001 (2001-04-05) page 4, paragraphs 5,6 page 5, paragraph 2 page 11, paragraph 3 -----	1-27
A	EP 0 847 965 A (SAINT GOBAIN VITRAGE) 17 June 1998 (1998-06-17) page 7, line 17 - line 22 page 9, line 30 - line 34 -----	1,18
A	US 6 174 592 B1 (SPERGER REINHARD ET AL) 16 January 2001 (2001-01-16) column 2, line 55 - line 64 column 4, line 21 - line 53 -----	1,18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

13 July 2004

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26/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 230 749 B1 (KERTESZ JANOS)  15 May 2001 (2001-05-15)  column 1, line 26 - line 39  column 3, line 42 - line 55  -----</p>	1,18

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/005273

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0123915	A	05-04-2001	AT 239923 T	15-05-2003
			AU 4742400 A	30-04-2001
			BR 0015201 A	09-07-2002
			CN 1423752 T	11-06-2003
			WO 0123915 A1	05-04-2001
			DE 50002115 D1	12-06-2003
			EP 1222481 A1	17-07-2002
			ES 2193957 T3	16-11-2003
			HK 1049517 A1	03-10-2003
			JP 2004502563 T	29-01-2004
EP 0847965	A	17-06-1998	FR 2757151 A1	19-06-1998
			EP 0847965 A1	17-06-1998
			JP 10217378 A	18-08-1998
			US 6322881 B1	27-11-2001
			US 2002045037 A1	18-04-2002
			US 6045896 A	04-04-2000
US 6174592	B1	16-01-2001	CH 693138 A5	14-03-2003
			EP 0976542 A1	02-02-2000
			JP 2000086308 A	28-03-2000
US 6230749	B1	15-05-2001	NONE	